

$\pi_2(2100)$

$$I^G(J^{PC}) = 1^-(2^{-+})$$

OMITTED FROM SUMMARY TABLE
Needs confirmation.

$\pi_2(2100)$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
2090± 29 OUR AVERAGE			
2090± 30	¹ AMELIN	95B VES	36 $\pi^- A \rightarrow \pi^+ \pi^- \pi^- A$
2100±150	² DAUM	81B CNTR	63,94 $\pi^- p \rightarrow 3\pi X$
¹ From a fit to $J^{PC} = 2^{-+} f_2(1270)\pi, (\pi\pi)_s\pi$ waves.			
² From a two-resonance fit to four 2^{-0+} waves.			

$\pi_2(2100)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
620± 50 OUR AVERAGE	Error includes scale factor of 1.2.		
520±100	³ AMELIN	95B VES	36 $\pi^- A \rightarrow \pi^+ \pi^- \pi^- A$
651± 50	⁴ DAUM	81B CNTR	63,94 $\pi^- p \rightarrow 3\pi X$
³ From a fit to $J^{PC} = 2^{-+} f_2(1270)\pi, (\pi\pi)_s\pi$ waves.			
⁴ From a two-resonance fit to four 2^{-0+} waves.			

$\pi_2(2100)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad 3\pi$	seen
$\Gamma_2 \quad \rho\pi$	seen
$\Gamma_3 \quad f_2(1270)\pi$	seen
$\Gamma_4 \quad (\pi\pi)_s\pi$	seen

$\pi_2(2100)$ BRANCHING RATIOS

$\Gamma(\rho\pi)/\Gamma(3\pi)$	Γ_2/Γ_1			
VALUE	DOCUMENT ID	TECN	COMMENT	
0.19±0.05	⁵ DAUM	81B CNTR	63,94 $\pi^- p$	
$\Gamma(f_2(1270)\pi)/\Gamma(3\pi)$	Γ_3/Γ_1			
VALUE	DOCUMENT ID	TECN	COMMENT	
0.36±0.09	⁵ DAUM	81B CNTR	63,94 $\pi^- p$	
$\Gamma((\pi\pi)_s\pi)/\Gamma(3\pi)$	Γ_4/Γ_1			
VALUE	DOCUMENT ID	TECN	COMMENT	
0.45±0.07	⁵ DAUM	81B CNTR	63,94 $\pi^- p$	

D-wave/S-wave RATIO FOR $\pi_2(2100) \rightarrow f_2(1270)\pi$

VALUE	DOCUMENT ID	TECN	COMMENT
0.39 ± 0.23	⁵ DAUM	81B	CNTR 63,94 $\pi^- p$

⁵From a two-resonance fit to four 2^-0^+ waves.

$\pi_2(2100)$ REFERENCES

AMELIN	95B	PL B356 595	D.V. Amelin <i>et al.</i>	(SERP, TBIL)
DAUM	81B	NP B182 269	C. Daum <i>et al.</i>	(AMST, CERN, CRAC, MPIM+)